

No.

200000285



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

DEKALB Genetics Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

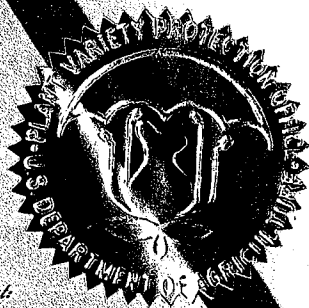
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'GF6150'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this second day of May, in the year two thousand two.

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICEAPPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER DEKALB Genetics Corporation		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME		3. VARIETY NAME GF6150	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 3100 Sycamore Road DeKalb, IL 60115		5. TELEPHONE (include area code) (815) 758-9281		FOR OFFICIAL USE ONLY PVPO NUMBER 200000285	
6. FAX (include area code) (815) 758-3117		7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware	
9. DATE OF INCORPORATION June 15, 1988		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Timothy R. Kain DEKALB Genetics Corporation 3100 Sycamore Road DeKalb, IL 60115		FILING AND EXAMINATION FEES: \$ 2450.00 DATE 6/8/00 CERTIFICATION FEE: \$ 320.00 DATE 4/5/02	
11. TELEPHONE (Include area code) (815) 758-9281		12. FAX (Include area code) (815) 758-3117		13. E-MAIL tkain@dekalb.com	
14. CROP KIND (Common Name) Corn		15. GENUS AND SPECIES NAME OF CROP Zea mays		16. FAMILY NAME (Botanical) Gramineae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)	
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES U.S. February 2000 <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)	
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER Timothy R. Kain		SIGNATURE OF OWNER			
NAME (Please print or type) Timothy R. Kain		NAME (Please print or type)			
CAPACITY OR TITLE Patent Scientist		DATE 6/6/00		CAPACITY OR TITLE	
DATE		DATE			

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

200000285

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

A hybrid produced from this variety was first sold in the United States - February 2000

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

S&T-470 (6-96) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

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**EXHIBIT A
(Amended)**Origin and Breeding History
GF6150

GF6150 was selected for improved combining ability, grain quality, seed size and disease resistance.

Summer 1993	The inbred line GF9120* (a proprietary DEKALB Genetics Corporation inbred) was crossed to the inbred line NL054B (a proprietary DEKALB Genetics Corporation inbred) in Union City, TN corn research nursery rows 93:5055 and 93:4964-67.
Winter 1993-94	The S0 seed was grown and self-pollinated (nursery book row number 93:559)
Summer 1994	The S1 seed was grown and self-pollinated (nursery book row number 94:11046)
Summer 1995	The S2 seed was grown ear-to-row and self-pollinated (nursery book row number 95:20767)
Winter 1995-96	The S3 seed was grown ear-to-row and self-pollinated (nursery book row number 95F:431)
Summer 1996	The S4 seed was grown ear-to-row and self-pollinated (nursery book row number 96:35131)
Winter 1996-97	The S5 seed was grown ear-to-row and self-pollinated (nursery book row number 96F:1038) S6 ears were bulked and designated GF6150.

* - The line 'GF9120' is descended from the public line B73.

Statement of Stability and Uniformity

Corn inbred GF6150 was coded in 1996 and has been reproduced by self pollination for the past three generations and judged to be stable. Inbred GF6150 is uniform for all traits observed.

Statement of Variants

GF6150 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT BStatement of Distinctness

DEKALB Genetics Corporation believes that GF6150 is most similar to corn inbred NL054B, an inbred developed by DEKALB Genetics Corporation.

GF6150 and NL054B differ most significantly in the following traits:

Qualitative Traits:

Trait	GF6150	NL054B
Cob Color	Red 5 R 3/8	White Lighter than 2.5 Y 9/2
Corn Lethal Necrosis	Very Susceptible	Resistant
Northern Leaf Blight (Race 2)	Very Resistant	Shows no susceptibility nor resistance

United States Department of Agriculture, Agricultural Marketing Service
Science Division, Plant Variety Protection Office
National Agricultural Library Building, Room 500
Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
CORN (*Zea mays* L.)

Name of Applicant(s) DEKALB Genetics Corporation		Variety Seed Source	Variety Name or Temporary Designation GF6150																																									
Address (Street & No., or R.F.D. No., City, State, Zip Code and Country) 3100 Sycamore Road, DeKalb, IL 60115 U.S.A.			FOR OFFICIAL USE																																									
			PVPO Number <u>2000 0 0285</u>																																									
Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a '*' are considered necessary for an adequate variety description and must be completed.																																												
<p>COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):</p> <table border="0"> <tr> <td>01=Light Green</td> <td>06=Pale Yellow</td> <td>11=Pink</td> <td>16=Pale Purple</td> <td>21=Buff</td> </tr> <tr> <td>02=Medium Green</td> <td>07=Yellow</td> <td>12=Light Red</td> <td>17=Purple</td> <td>22=Tan</td> </tr> <tr> <td>03=Dark Green</td> <td>08=Yellow-Orange</td> <td>13=Cherry Red</td> <td>18=Colorless</td> <td>23=Brown</td> </tr> <tr> <td>04=Very Dark Green</td> <td>09=Salmon</td> <td>14=Red</td> <td>19=White</td> <td>24=Bronze</td> </tr> <tr> <td>05=Green-Yellow</td> <td>10=Pink-Orange</td> <td>15=Red & White</td> <td>20=White Capped</td> <td>25=Variegated (Describe)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>26=Other (Describe)</td> </tr> </table>					01=Light Green	06=Pale Yellow	11=Pink	16=Pale Purple	21=Buff	02=Medium Green	07=Yellow	12=Light Red	17=Purple	22=Tan	03=Dark Green	08=Yellow-Orange	13=Cherry Red	18=Colorless	23=Brown	04=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze	05=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe)					26=Other (Describe)										
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<p>STANDARD INBRED CHOICES (Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data):</p> <table border="0"> <tr> <td colspan="2">Yellow Dent Families:</td> <td colspan="2">Yellow Dent (Unrelated):</td> <td>Sweet Corn:</td> </tr> <tr> <td>Family</td> <td>Members</td> <td>Col09, ND246,</td> <td></td> <td>C13, Iowa5125, P39, 2132</td> </tr> <tr> <td>B14</td> <td>CM105, A632, B64, B68</td> <td>Oh7, T232</td> <td></td> <td></td> </tr> <tr> <td>B37</td> <td>B37, B76, H84</td> <td>W117, W153R</td> <td></td> <td>Popcorn:</td> </tr> <tr> <td>B73</td> <td>N192, A679, B73, NC268</td> <td>W182BN</td> <td></td> <td>SG1533, 4722, HP301, HP7211</td> </tr> <tr> <td>C103</td> <td>Mo17, Va102, Va35, A682</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Oh43</td> <td>A619, MS71, H99, Va26</td> <td>White Dent:</td> <td></td> <td>Pipecorn:</td> </tr> <tr> <td>WF9</td> <td>W64A, A554, A654, Pa91</td> <td>CI66, H105, Ky228</td> <td></td> <td>Mo15W, Mo16W, Mo24W</td> </tr> </table>					Yellow Dent Families:		Yellow Dent (Unrelated):		Sweet Corn:	Family	Members	Col09, ND246,		C13, Iowa5125, P39, 2132	B14	CM105, A632, B64, B68	Oh7, T232			B37	B37, B76, H84	W117, W153R		Popcorn:	B73	N192, A679, B73, NC268	W182BN		SG1533, 4722, HP301, HP7211	C103	Mo17, Va102, Va35, A682				Oh43	A619, MS71, H99, Va26	White Dent:		Pipecorn:	WF9	W64A, A554, A654, Pa91	CI66, H105, Ky228		Mo15W, Mo16W, Mo24W
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1. TYPE: (describe intermediate types in Comments section)			Standard Inbred Name MO17																																									
* 8 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7=Pipecorn 8=Flint-Dent			2																																									
2. REGION WHERE DEVELOPED IN THE U.S.A.:			Standard Seed Source NCRIPS																																									
* 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=Southcentral 6=Southwest 7=Other			2																																									
3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section):			DAYS																																									
* DAYS			HEAT UNITS																																									
* 7 9			1 5 7 9. 0 From emergence to 50% of plants in silk																																									
* 8 0			1 6 0 4. 7 From emergence to 50% of plants in pollen																																									
* - - -			- - - - . - From 10% to 90% pollen shed																																									
(*) - - -			- - - - . - From 50% silk to optimum edible quality																																									
* - - -			- - - - . - From 50% silk to harvest at 25% moisture																																									
4. PLANT:			Standard Deviation Sample Size																																									
* 1 9 7. 5 cm Plant Height (to tassel tip)			13.6 60																																									
* 0 9 6. 5 cm Ear Height (to base of top ear node)			5.5 60																																									
0 1 1. 6 cm Length of Top Ear Internode			2.1 60																																									
Average Number of Tillers																																												
* 1. 0 Average Number of Ears per Stalk			0.0 60																																									
4 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=Dark			1																																									
Application Variety Data			Standard Inbred Data																																									

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Application Variety Data				Page 2	Standard Inbred Data					
5. LEAF:				Standard Deviation	Sample Size	Standard Deviation				Sample Size
*	0	0	8. 6 cm Width of Ear Node Leaf	0.6	60	0	0	9. 0	0.736	170
*	0	7	7. 1 cm Length of Ear Node Leaf	5.8	60	0	6	8. 8	3.079	170
*			5. 8 Number of leaves above top ear	0.0	20			5. 1	0.399	85
	2	5. 0	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	2.0	60	3	3. 4		6.075	170
*	0	2	Leaf Color (Munsell code 5 GY 4/8)			0	2	(Munsell code 5 GY 4/8)		
		8	Leaf Sheath Pubescence(Rate on scale from 1=none to 9=peach fuzz)			2				
		4	Marginal Waves (Rate on scale from 1=none to 9=many)			4				
		3	Longitudinal Creases (Rate on scale from 1=none to 9=many)			2				
6. TASSEL:				Standard Deviation	Sample Size	Standard Deviation				Sample Size
*	0	4. 7	Number of Primary Lateral Branches	0.2	60	0	5. 9		0.663	170
	1	5. 3	Branch Angle from Central Spike	5.0	60	4	7. 0		8.439	170
*	3	1. 0	cm Tassel Length (from top leaf collar to tassel tip)	2.6	60	4	6. 5		5.931	170
		5. 2	Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)			6. 0				
	0	5	Anther Color (Munsell code 2.5 GY 8/6)			0	5	(Munsell code 2.5 GY 8/6)		
	0	2	Glume Color (Munsell code 5 GY 4/8)			0	2	(Munsell code 5 GY 4/8)		
		1	Bar Glumes (Glume Bands): 1=Absent 2=Present			1				
7a. EAR (Unhusked Data):										
*	2	2	Silk Color (3 days after emergence) (Munsell code 2.5 GY 8/6 with 5 R 5/8)	2 2 (Munsell code 2.5 GY 8/6 with 5 R 5/8)						
	0	2	Fresh Husk Color (25 days after 50% silking) (Munsell code 5 GY 4/8)	0 2 (Munsell code 5 GY 4/8)						
	2	1	Dry Husk Color (65 days after 50% Silking) (Munsell code 2.5 Y 8/4)	2 1 (Munsell code 2.5 Y 8/4)						
*		2	Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendent	3						
		5	Husk Tightness (Rate on scale from 1=very loose to 9=very tight)	4						
		1	Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)	2						
7b. EAR (Husked Ear Data):				Standard Deviation	Sample Size	Standard Deviation				Sample Size
*	1	5. 3	cm Ear Length	1.1	60	1	8. 4		1.922	80
*	4	1. 0	mm Ear Diameter at mid-point	3.0	60	3	4. 9		1.676	80
	1	2	7. 4 gm Ear Weight	10.7	60	1	0	1. 1	24.193	160
*		1	5 Number of Kernel Rows	0.8	60	1	1		0.651	80
		2	Kernel Rows: 1=Indistinct 2=Distinct	2						
		2	Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral	2						
	0	7. 0	cm Shank Length	4.0	60	1	3. 2		2.867	160
		2	Ear Taper: 1=Slight 2=Average 3=Extreme	1						
Application Variety Data				Standard Inbred Data						
Note: Use chart on first page to choose color codes for color traits.										

Application Variety Data			Page 3	Standard Inbred Data		
8. KERNEL (Dried):			Standard Deviation	Sample Size	Standard Deviation Sample Size	
1	0.3 mm Kernel Length	0.5	60	1	0.4	0.771 80
0	7.1 mm Kernel Width	0.1	60	0	8.5	0.545 80
0	3.7 mm Kernel Thickness	0.2	60	0	4.4	0.339 80
3	5.8 % Round Kernels (Shape Grade)	7.0	500g	7	7.0	500g
1 Aleurone Color Pattern: 1=Homozygous 2=Segregating				1		
(*)	1 9 Aleurone Color (Munsell code Lighter than 2.5 Y 9/2)			1	9 (Munsell code Lighter Than 2.5 Y 9/2)	
*	0 7 Hard Endosperm Color (Munsell code 2.5 Y 8/10)			0	7 (Munsell code 2.5 Y 8/10)	
*	0 3 Endosperm Type: 1=Sweet (sul) 2=Extra Sweet (sh2) 3=Normal Starch 4=High Amylose Starch 5=Waxy Starch 6=High Protein 7=High Lysine 8=Super Sweet (se) 9=High Oil 10=Other			0	3	
2	5.1 gm Weight per 100 Kernels (unsized sample)	1.7	400 seeds	2	9.0	4.053 1700 seeds
9. COB:			Standard Deviation	Sample Size	Standard Deviation Sample Size	
*	2 4.0 mm Cob Diameter at mid-point	0.3	60	1	8.2	1.153 80
	1 4 Cob Color (Munsell code 5 R 3/8)			1	4 (Munsell code 5 R 3/8)	
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):						
A. Leaf Blights, Wilts, and Local Infection Diseases						
6 Anthracnose Leaf Blight (<i>Colletotrichum graminicola</i>)				8		
_ Common Rust (<i>Puccinia sorghi</i>)				7		
_ Common Smut (<i>Ustilago maydis</i>)				7		
5 Eyespot (<i>Kabatella zeae</i>)				8		
8 Goss's Wilt (<i>Clavibacter michiganense</i> spp. <i>nebraskense</i>)				8		
4 Gray Leaf Spot (<i>Cercospora zeae-maydis</i>)				6		
8 Helminthosporium Leaf Spot (<i>Bipolaris zeicola</i>) Race 2				8 Race 2		
8 Northern Leaf Blight (<i>Exserohilum turcicum</i>) Race 2				8 Race 2		
6 Southern Leaf Blight (<i>Bipolaris maydis</i>) Race 0				8 Race 0		
_ Southern Rust (<i>Puccinia polysora</i>)				-		
7 Stewart's Wilt (<i>Erwinia stewartii</i>)				-		
_ Other (Specify) _____				-		
B. Systemic Diseases						
2 Corn Lethal Necrosis (MCMV and MDMV)				5		
_ Head Smut (<i>Sphacelotheca reiliana</i>)				8		
_ Maize Chlorotic Dwarf Virus (MCDV)				-		
_ Maize Chlorotic Mottle Virus (MCMV)				-		
_ Maize Dwarf Mosaic Virus (MDMV) Strain _____				- Strain _____		
_ Sorghum Downy Mildew of Corn (<i>Peronosclerospora sorghi</i>)				-		
_ Other (Specify) _____				-		
C. Stalk Rots						
_ Anthracnose Stalk Rot (<i>Colletotrichum graminicola</i>)				-		
_ Diplodia Stalk Rot (<i>Stenocarpella maydis</i>)				-		
_ Fusarium Stalk Rot (<i>Fusarium moniliforme</i>)				-		
_ Gibberella Stalk Rot (<i>Gibberella zeae</i>)				-		
_ Other (Specify) _____				-		
D. Ear and Kernel Rots						
_ Aspergillus Ear and Kernel Rot (<i>Aspergillus flavus</i>)				-		
_ Diplodia Ear Rot (<i>Stenocarpella maydis</i>)				-		
_ Fusarium Ear and Kernel Rot (<i>Fusarium moniliforme</i>)				-		
_ Gibberella Ear Rot (<i>Gibberella zeae</i>)				-		
_ Other (Specify) _____				-		
Application Variety Data				Standard Inbred Data		

Note: Use chart on first page to choose color codes for color traits.

Application Variety Data		Page 4	Standard Inbred Data		
11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested):					
	Standard Deviation	Sample Size		Standard Deviation	Sample Size
- Banks Grass Mite (<i>Oligonychus pratensis</i>)			-		
- Corn Earworm (<i>Helicoverpa zea</i>)			-		
- Leaf-Feeding			-		
- Silk Feeding :			-		
- Ear Damage			-		
- Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)			-		
- Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)			-		
- European Corn Borer (<i>Ostrinia nubilalis</i>)			-		
4 1st Generation (Typically Whorl Leaf Feeding)			3		
5 2nd Generation (Typically Leaf Sheath-Collar Feeding)			5		
- Stalk Tunneling :			-		
- Fall Armyworm (<i>Spodoptera frugiperda</i>)			-		
- Leaf-Feeding			-		
- Silk-Feeding :			-		
- Maize Weevil (<i>Sitophilus zeamais</i>)			-		
- Northern Rootworm (<i>Diabrotica barberi</i>)			-		
- Southern Rootworm (<i>Diabrotica undecimpunctata</i>)			-		
- Southwestern Corn Borer (<i>Diatraea grandiosella</i>)			-		
- Leaf Feeding			-		
- Stalk Tunneling :			-		
- Two-spotted Spider Mite (<i>Tetranychus urticae</i>)			-		
- Western Rootworm (<i>Diabrotica virgifera virgifera</i>)			-		
- Other (Specify)			-		
12. AGRONOMIC TRAITS:					
- Stay Green (at 65 days after anthesis) (Rate on a scale from 1=worst to 9=excellent.)			-		
- 0. 0 % Dropped Ears (at 65 days after anthesis)			0	5. 0	
0 0. 0 % Pre-anthesis Brittle Snapping			0	0. 0	
0 0. 0 % Pre-anthesis Root Lodging			0	0. 9	
- 0. 4 % Post-anthesis Root Lodging (at 65 days after anthesis)			0	1. 0	
4 7 3 3. 8 Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)			2	4 0 4. 0	
13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied)					
1 Isozymes	1 RFLP's	- RAPD's			
REFERENCES:					
<p>Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio State University.</p> <p>Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180.</p> <p>Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Plant and Plant Products in the United States. The American Phytopathological Society, St. Paul, MN.</p> <p>Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westport, CT.</p> <p>Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Uses. John Wiley & Sons, New York.</p> <p>McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp.</p> <p>Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburgh, N.Y. 12551-0230</p> <p>The Mutants of Maize. 1968. Crop Science Society of America. Madison, WI.</p> <p>Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Paul, MN. 105 pp.</p> <p>Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, SSSA, Madison, WI.</p> <p>Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1959.</p> <p>U.S. Department of Agriculture. 1936, 1937. Yearbook.</p>					
COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):					
Heat Unit Calculation: $\text{GDU} = \frac{\text{Daily Max Temp } (<=86^{\circ}\text{F}) + \text{Daily Min Temp } (>=50^{\circ}\text{F})}{2} - 50^{\circ}\text{F}$					
There are large standard deviations for the following specific traits for 'MO17': degree of leaf angle, tassel branch angle, tassel length, ear weight, and kernel weight. An explanation is requested to what may have contributed to the large variability in these traits.					
<ul style="list-style-type: none"> data collected at 3 test locations over four years for a total sample size of 170 plants measured. Each of the aforementioned characteristics had a wide range of values due to spacial and temporal variation of the test contributing to the large standard deviation. Growing conditions (soil, climate, drought conditions, etc.) contributed significantly to influence the variability of the traits measured. 					

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) DEKALB Genetics Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME GF6150
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 3100 Sycamore Road DeKalb, IL 60115 U.S.A.	5. TELEPHONE (include area code) (815) 758-9281	6. FAX (include area code) (815) 758-3117
	7. PVPO NUMBER 200000285	

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

GF6150 was originated and developed by a breeder employed by DEKALB Genetics Corporation. By agreement between DEKALB Genetics Corporation and the breeder, all rights to any invention, discovery, or development are assigned to DEKALB Genetics Corporation. No rights to such invention, discovery, or development are retained by the breeder.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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